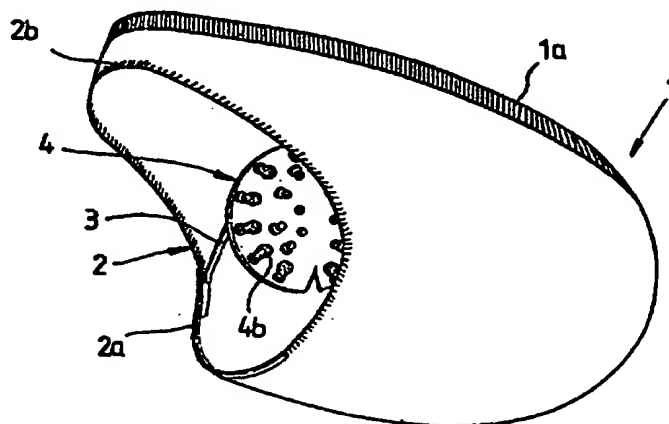




## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification <sup>6</sup> : <b>A61H 19/00 // A41B 9/02</b>	<b>A1</b>	(11) International Publication Number: <b>WO 95/26175</b> (43) International Publication Date: <b>5 October 1995 (05.10.95)</b>
<p>(21) International Application Number: <b>PCT/KR95/00023</b></p> <p>(22) International Filing Date: <b>20 March 1995 (20.03.95)</b></p> <p>(30) Priority Data:              1994/6078                      25 March 1994 (25.03.94)      KR              1995/3593                      24 February 1995 (24.02.95)      KR</p> <p>(71)(72) Applicant and Inventor: <b>HONG, Young, Soo [KR/KR];</b>              323 Yeonkun-dong, Jongro-ku, Seoul 110-460 (KR).</p> <p>(74) Agent: <b>CHOI, Hong, Soon; 502 Cambridge Building, 825-18,</b>              Yeoksam-dong, Kangnam-ku, Seoul 135-080 (KR).</p>	<p>(81) Designated States: <b>AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, JP, KG, KP, KZ, LK, LR, LT, LV, MD, MG, MN, MX, NO, NZ, PL, RO, RU, SI, SK, TJ, TT, UA, US, UZ, VN, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG), ARIPO patent (KE, MW, SD, SZ, UG).</b></p> <p><b>Published</b>              <i>With international search report.</i></p>	

(54) Title: UNDERPANTS WITH A STAMINA REINFORCING MECHANISM USING WALKING FORCE



## (57) Abstract

An underpants with a stamina reinforcing mechanism using walking force includes an underpants body provided with a waistband (1a) and both leg openings; both supporting means (2) respectively, formed along the perimeters of said leg insertion openings (1b, 1c); both actuating means (3) moving forward and backward by turns while both legs move forward and backward, one end of said each actuating means (3) connected to the corresponding supporting means (2); and a strengthening means (4) rubbing the glans of the penis by frictional contact according as said actuating means (3) move forward and backward by turns. Said strengthening means (4) is connected to said both actuating means (3) so that a strengthening means (4) may surround around the glans of the penis, whereby the glans of the penis is naturally strengthened during walking.

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UNDERPANTS WITH A STAMINA REINFORCING  
MECHANISM USING WALKING FORCE

BACKGROUND OF THE INVENTION

1. Field of the invention

5           The present invention relates to underpants with a stamina reinforcing mechanism using walking force. More particularly, the present invention relates to underpants with a stamina reinforcing mechanism using walking force by which the glans of the penis is rubbed against a plurality of projected pieces which are operated by  
10           the walking motions of the leg, thereby stamina can be reinforced.

2. Description of the prior art

          In these days, as the human desire for powerful stamina is gradually increased, various methods for reinforcing stamina are proposed in the art. A typical method for reinforcing stamina is  
15           taking a medicine or using a special mechanism. In the former case, the medicine has an essential limit in its effect and is apt to give rise to an adverse reaction. Also, in the latter case, since the mechanism works in the state in which the penis is fixedly holded, it causes a counter result to degrade the stamina of a man which he originally  
20           has.

          Therefore, there has arisen a need for a stamina reinforcing mechanism which is capable of effectively increasing the stamina of a man without any adverse reaction or counter result. However, no prior art for such a mechanism has been found.

### BRIEF DESCRIPTION OF THE DRAWINGS

The above object, and other features and advantages of the present invention will be more apparent after a reading of the following detailed description taken in conjunction with the drawings, in which:

FIG. 1 is a perspective view of underpants with a stamina reinforcing mechanism using walking force in accordance with an embodiment of the present invention;

FIG. 2 is an exploded prespective view illustrating the stamina reinforcing mechanism shown in FIG. 1, independently;

FIG. 3 is a partially enlarged cross-sectional plan view of a strengthening means used in the stamina reinforcing mechanism of FIG. 2;

FIG. 4 a partially enlarged longitudinal sectional view of a strengthening means used in the stamina reinforcing mechanism of FIG. 2;

FIG. 5 is an enlarged cross-sectional view illustrating the structure of one of a plurality of projected pieces attached to the strengthening means of FIGs. 3 and 4;

FIG. 6 is an enlarged cross-sectional view of a projected piece in accordance with another embodiment of the present invention;

FIGs. 7 to 9 are views illustrating the operating procedure of the underpants with a stamina reinforcing mechanism using walking force in accordance with the present invention;

FIG. 10 is an exploded perspective view illustrating a stamina

reinforcing mechanism in accordance with another embodiment of the present invention, independently;

FIG. 11 is a partially enlarged cross-sectional plan view of a projected means used in the stamina reinforcing mechanism of FIG. 10;

FIG. 12 is a front view illustrating the power transfer structure of a gear train included in the strengthening means of FIG. 11; and

FIG. 13 is a perspective view illustrating the state in which a stamina reinforcing device in accordance with still another embodiment is put into conventional underpants.

### SUMMARY OF THE INVENTION

This above and other objects which will be apparent to one skilled in the art upon a reading of this disclosure are attained by:

An underpants with a stamina reinforcing mechanism using walking force comprising:

an underpants body provided with a waistband and both leg insertion openings;

both supporting means respectively, formed along the perimeter of said leg insertion openings;

both actuating means moving forward and backward by turns while both legs move forward and backward, one end of said each actuating means connected to the corresponding supporting means; and

a strengthening means rubbing the glans of the penis by frictional contact according as said actuating means move forward and backward by turns, said strengthening means connected to said both

actuating means so that a strengthening means may surround around the glans of the penis, whereby the glans of the penis are naturally strengthened during walking.

### DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

Referring now to FIGs. 1 to 5, there is illustrated underpants with a stamina reinforcing mechanism using walking force in accordance with one embodiment of the present invention. The underpants includes a underpants body 1. In the upper portion of underpants body 1, there is provided a waistband 1a, and in the lower portion of underpants body 1, there are defined two leg insertion openings 1b, 1c, respectively. Each of leg insertion openings 1b, 1c has a supporting means 2 attached to the perimeter thereof. Each supporting means 2 includes a resilient band 2a, and a contractible band 2b which is connected to both ends of resilient band 2a to obtain a ring-shaped appearance. The resilient band 2a is thin in thickness, narrow in width and contacts with the inside skin of the thigh portion of a man. The contractible band 2b can be made from rubber and contacts with the outside skin of the thigh portion of the man.

One end of respective actuating means 3 is connected to resilient band 2a of the supporting means 2. An actuating means 3 is also thin in thickness, narrow in width and can be made from resilient material. The actuating means 3 is alternately moved forward and rearward in line with the walking motion of the legs to

transfer power. The other end of respective actuating means 3 is connected to a strengthening means 4 which surrounds the glans of the penis.

In order to maximize the power produced from both legs which are alternately moved forward and rearward upon walking, resilient band 2a of each supporting means 2 is disposed in leg insertion openings 1b, 1c respectively, to contact with the inside rearward portion of the thigh of the man, and the one end of actuating means 3 is connected to a forward end of resilient band 2a.

Each actuating means 3 can be integrally formed with resilient band 2a of supporting means 2, or can be detachably connected to resilient band 2a of supporting means 2 by a detachable means so as to be detached when desired. A magic tape or a snap can be used as the detachable means, in a non restricting manner.

A strengthening means 4 includes a strengthening plate 4a which is connected to both the other ends of supporting means 3 to surround the glans of the penis, and a plurality of projected pieces 4b which are attached to the inner surface of the strengthening plate 4a to be resiliently flexed upon contacting with the glans of the penis to excite it. The strengthening plate 4a is made of flexible material, for example soft cloth. A cut-out portion 4c is formed in the lower center part of the strengthening plate 4a to effectively surround the glans. The strengthening plate 4a can be integrally formed with actuating means 3, or can be detachably connected to actuating means 3 using another detachable means.

A plurality of projected pieces 4b are attached to the strengthening

plate 4a in a snap-fitted manner, and the free end of each projected piece 4b is directed to the glans of the penis. Each projected piece 4b has a mushroom or bowling pin shaped inner body 40a, and a outer body 40b. Inner body 40a is made from resilient material such as rubber to be elastically moved upon contact with the glans of the penis. Outer body 40b is made from material such as silicon rubber, ceramic, and it covers the outer surface of inner body 40a, and is to make frictional contacts with the glans of the penis during walking. The elasticity of the projected piece 4b serves to increase the stamina reinforcing effect of the present invention. Also, as best seen in FIG. 5, a magnet 40c is embedded in respective projected piece 4b to enhance the stamina reinforcing effect using a magnetic force change. In the projected piece 4b constructed as described above, inner body 40a and outer body 40b are separately formed, and assembled after stainless plates 40d, 40e are fitted to the outer part of inner body 40a and the inner part of outer body 40b, respectively. The free end of inner body 40a is formed with a groove 40f into which the magnet 40c is seated. Instead of the magnet 40c, the perfume may be provided in groove 40f when desired. A magnetic force passing opening 40g is formed in stainless plate 40e to ensure the free pass of the magnetic force. When the perfume is provided in groove 40f of inner body 40a, a hole is formed in outer outer body 40b to ensure release of the perfume. In the strengthening means 4 constructed as mentioned above, the projected piece 4b is not restricted to that shown, various projected piece structures are used according to effect and taste, and for example, as shown in FIG. 6, projected piece 4b'



made of soft brushes can be used.

Stamina reinforcing method by the underpants in accordance with this embodiment of the present invention will be described in below with reference to FIGs. 7 to 9.

5 Referring now to FIG. 7, there is illustrated a initial stage in which the underpants of the present invention are worn and the legs of the man are maintained in a straight line. The strengthening plate 4a is positioned so as to surround the glans of the penis 5, and both actuating means 3 are maintained in a side by side relationship.

10 From this stage, in case that one of both legs moves forward, the front end of an actuating means 3 connected to a resilient band 2a surrounding the thigh forward moved approaches the glans of the penis; the front end of an actuating means 3 connected to a resilient band 2a surrounding the other thigh recedes from the glans of the  
15 penis, as shown in Figs. 8 and 9. To detailedly explain such action, in case that one of both actuating means 3 positioned in right and light sides of the penis moves forward, the other of them is pulled backward. Such action is repeated by turns according to the movement of legs. In this embodiment, a plurality of projected pieces  
20 4b of a strengthening plate 4a rub the glans of the penis by frictional contact during walking since they surround the glans of the penis.

As detailedly described above, the underpants with a stamina reinforcing mechanism using walking force involve strengthening the glans of the penis by rubbing it by frictional contact during walking.  
25 Therefore, it will be appreciated that the present invention, as described above, achieves naturally a stamina reinforcing effect during

walking. In addition, the underpants according to the present invention is very convenient to wear since they have only a stamina reinforcing mechanism attached to ordinary underpants. Moreover, providing a plurality of resilient projected pieces and magnets located inside them enhances stamina effectively since these projected pieces rub the surface of the glans of the penis with the magnets in motion during walking.

As illustrated in FIG. 10, which illustrates another embodiment of a stamina reinforcing mechanism, this embodiment is characterized in that the stamina may be strengthened not by pushing forward and pulling backward the strengthening plate but by alternatively rotating the strengthening plate in both opposite directions. In an alternate embodiment of FIG. 10, the stamina reinforcing means 4' is comprised of a power transference and conversion means 6 ; a rotating member 7 connected to a power transference and conversion means 6 ; and a hollow hemispherical strengthening plate 8 having a plurality of projected pieces 4b on its inner surface and a magic tape 12 on its outer surface. The power transference and conversion means 6 has the function of receiving the straight line motion from actuating means 3' and rotating the rotating member 7 connected to the power transference and conversion means 6. The rotating member 7 is of a hollow hemisphere and has a magic tape 12 on its inner face.

A center gear 70 is formed at the center of the outer face of the rotating member 7 . Rack gears 30 respectively are formed at the ends of the actuating means 3' in order to convert a straight line motion to a rotating motion.

Therefore, the straight line motion of the actuating means 3' during walking is convert to the rotating motion by a power transference and conversion means 6. The rotating member 7 is rotated since said rotating motion is transferred to the center gear 70  
5 fixedly attached to the rotating member 7. Accordingly, the strengthening plate 8 connected to the rotating member 7 rotates and a plurality of projected pieces attached thereto rub the glans of the penis by frictional contact as the rotating member 7 rotates.

In Fig. 11, the construction of the strengthening means is shown  
10 in an partial enlarged view. In Fig. 12, the process of transferting power of a power transference and conversion means 6 is detailedly shown.

In Figs. 11 and 12, the straight line motion of rack gears 30 respectively is converted to the rotating motion by the pinions 61, and  
15 then said rotating motion is transferred to the center gear 70 by way of the intermediate gears 62, 63, 64 and 65. Therefore, the rotating member 7 rotates. The movement of both actuating means 3' according to walking makes the center gear 70 rotate by turns in clock and clockwise direction. That is to say, when one actutating  
20 means moves forward, the other actuating means moves backward. Such movement is repetitive during walking. Gears 66 are ones which have the function of making the overall rotating direction in harmony. Rollers 67 make the strengthening plate 8 rotate smoothly. The other elements comprising the strengthening means, for example a plurality  
25 of projected pieces are not described here since those are the same as in embodiment 1.

Fig. 13 illustrates still another embodiment of the present invention in which the stamina reinforcing device using walking force is separately formed from the underpants.

In Fig. 13, the stamina reinforcing device using walking force  
5 comprises both supporting means 2 worn on both thighs; both actuating means 3 connected thereto for moving forward and backward by turns according to the movement of both legs during walking; and a strengthening means 4 for rubbing the glans of the penis according to the forward and backward movement of both actuating means 3  
10 respectively, which is connected to both actuating means 3. The detailed construction of stamina reinforcing device using walking force is the same as in example 1 and 2 described above. This stamina reinforcing device, as shown in Fig. 13, may also be attached to the underpants.

15 The strengthening action and the effect thereof by rubbing the surface of the glans of the penis in this embodiment are the same as in the embodiments 1 and 2 except that the stamina reinforcing device may be detached from the ordinary underpants as desired.

In addition, the stamina strengthening method according to the  
20 present invention is as follows:

Both thighs respectively approach and recede from the glans of the penis while both legs respectively alternately move forward and backward since the penis of the man is placed in front of the human body between both thighs. The power source originates from such  
25 movement of both thighs during walking. This power source is applied to the rubbing of the glans of the penis by frictional contact and

hence the glans of the penis is strengthened during walking.

According to the present invention, the stamina increases naturally during the daily life since the walking force is used as power source without using special power.

- 5        Having described the preferred embodiments of the present invention, it will appear to those ordinarily skilled in the art that various modifications may be made to the disclosed embodiments , and that such modifications are intended to be within the scope of the present invention.

CLAIMS

1. An underpants with a stamina reinforcing mechanism using walking force comprising:

an underpants body provided with a waistband and both leg  
5 insertion openings;

both supporting means respectively, formed along the perimeters of said leg insertion openings;

both actuating means alternately moving forward and backward while both legs move forward and backward, one end of said each  
10 actuating means connected to the corresponding supporting means; and

a strengthening means rubbing the glans of the penis according as said actuating means alternately move forward and backward, said strengthening means connected to said both actuating means so that a strengthening means may surround around the glans of the penis,  
15 whereby the glans of the penis are naturally strengthened during walking.

2. An underpants with a stamina reinforcing mechanism using walking force as in claim 1 wherein each of said both supporting means comprises a resilient band contacting the inside portion of  
20 each thigh and a flexible band contacting the outside portion of said thigh, where said both bands form a ring, and each of said both actuating means is connected to said resilient band.

3. An underpants with a stamina reinforcing mechanism using walking force as in claim 1 wherein each of said both actuating  
25 means is of thin and narrow bandlike shape and is detachably connected to said resilient band.

4. An underpants with a stamina reinforcing mechanism using walking force as in claim 1 wherein said strengthening means comprises a round strengthening plate connected to the other end of said each actuating means so that said strengthening means may  
5 surround the glans of the penis; and a plurality of projected pieces for stimulating the glans of the penis, attached to an inner face of said strengthening means so that said projected pieces may swing around the glans of the penis.

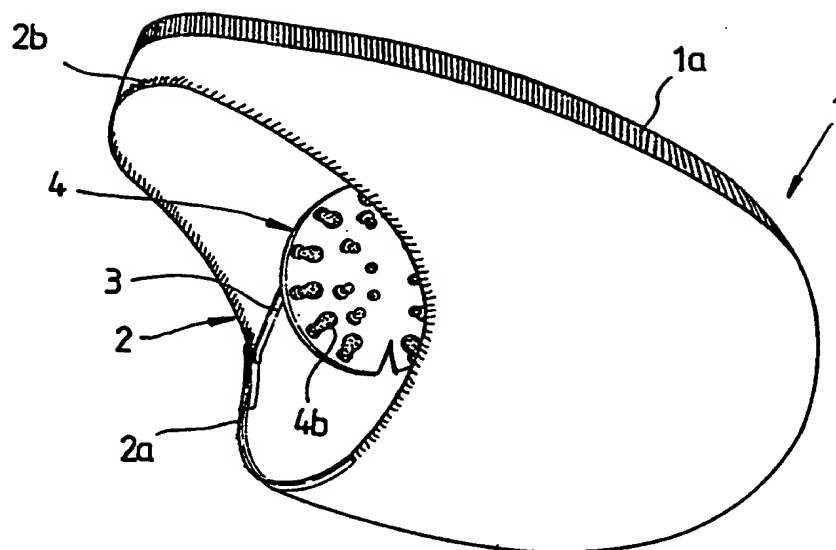
5. An underpants with a stamina reinforcing mechanism using  
10 walking force as in claim 4 wherein said projected pieces are formed so that they may shake resiliently and are detachably attached, and each of said projected pieces has the magnet or perfume at the inside thereof and the outter shell of them is made of silicon rubber or ceramic material with irregular surface and holes, whereby the  
15 strengthening effect is enhanced more effectively.

6. An underpants with a stamina reinforcing mechanism using walking force as in claim 1 wherein the stamina reinforcing means comprises a power transference and conversion means; a rotating member connected to a power transference and conversion means by  
20 way of a center gear formed at the center of the outer face of said rotating member ; and a hollow hemispherical strengthening plate having a plurality of projected pieces on its inner surface and a connecting means to said rotating member on its outter surface, rack gears respectively being formed at the ends of said actuating means  
25 on the part of the stamina reinforcing means in order to convert a straight line motion to a rotating motion.

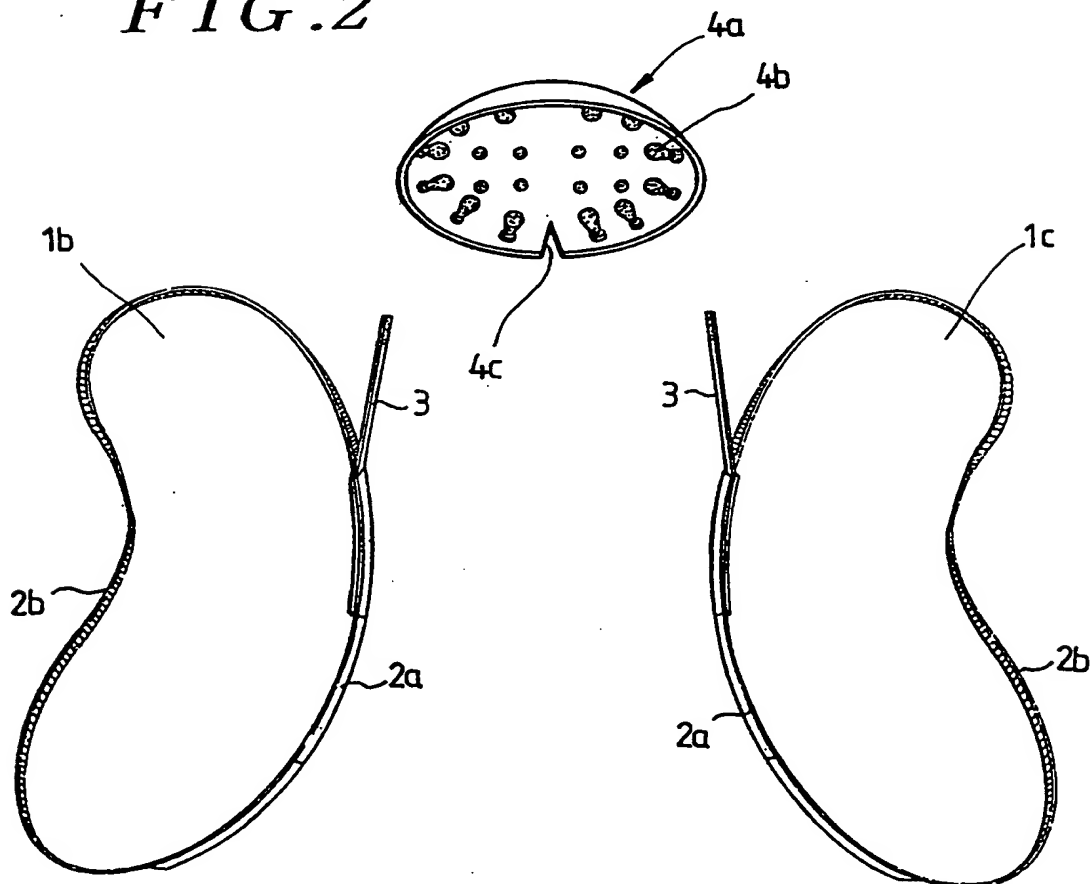
7. A stamina reinforcing device using walking force comprising  
both supporting means worn on both thighs;  
both actuating means connected thereto for alternately moving  
5 forward and backward according to the movement of both legs during  
walking; and  
a strengthening means for rubbing the glans of the penis by  
frictional contact according to the forward and backward movement of  
both actuating means respectively, which is connected to said both  
10 actuating means so that said strengthening means may surround the  
glans of the penis.
8. A method of reinforcing the stamina by rubbing the glans of the  
penis by frictional contact by taking advantage of the power source,  
said power source originating from the movement of both thighs  
15 respectively drawing on and becoming more distant from the glans of  
the penis while both legs respectively move forward and backward by  
turns, whereby the glans of the penis is strengthened during walking.



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*FIG. 1*

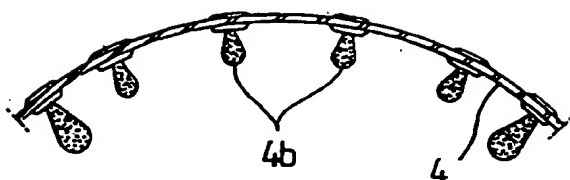


*FIG. 2*

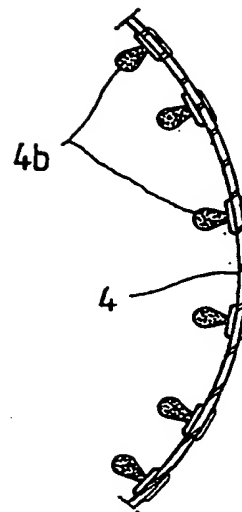


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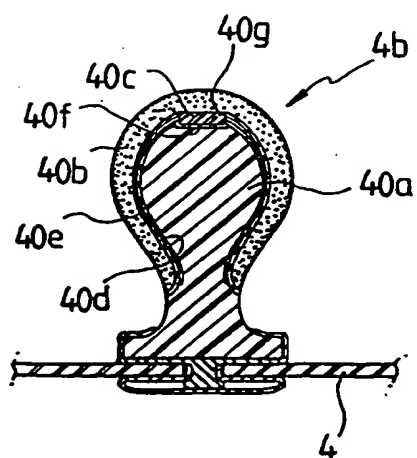
*FIG. 3*



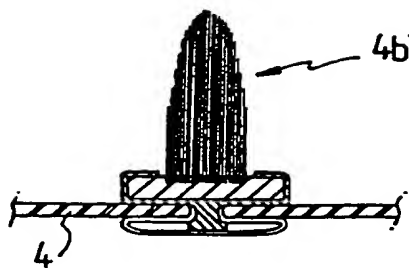
*FIG. 4*



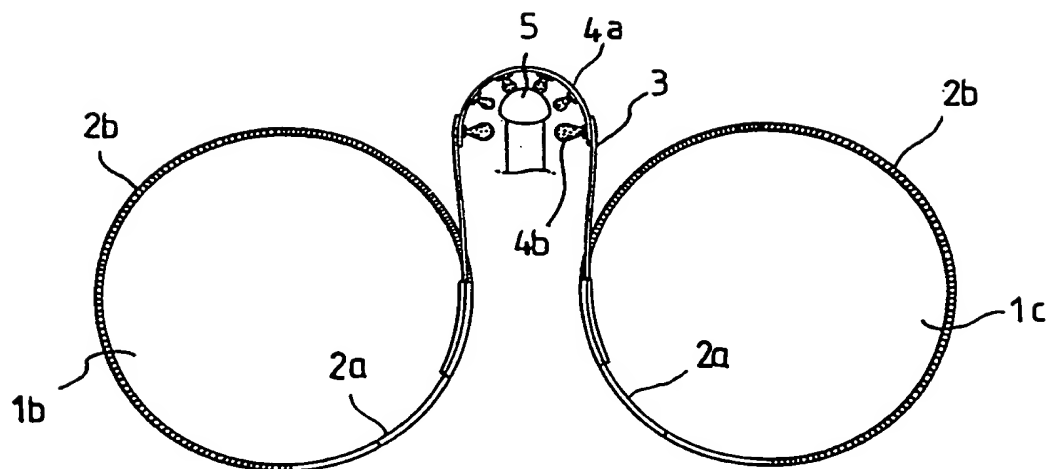
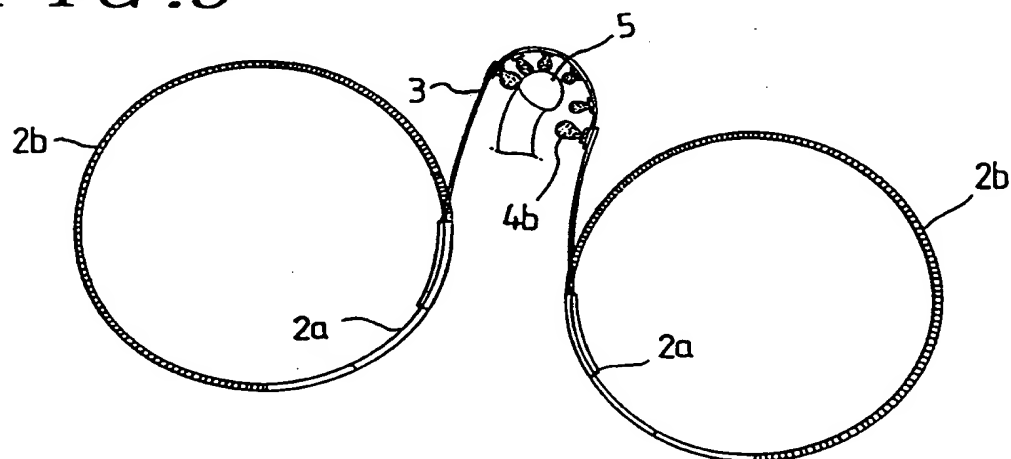
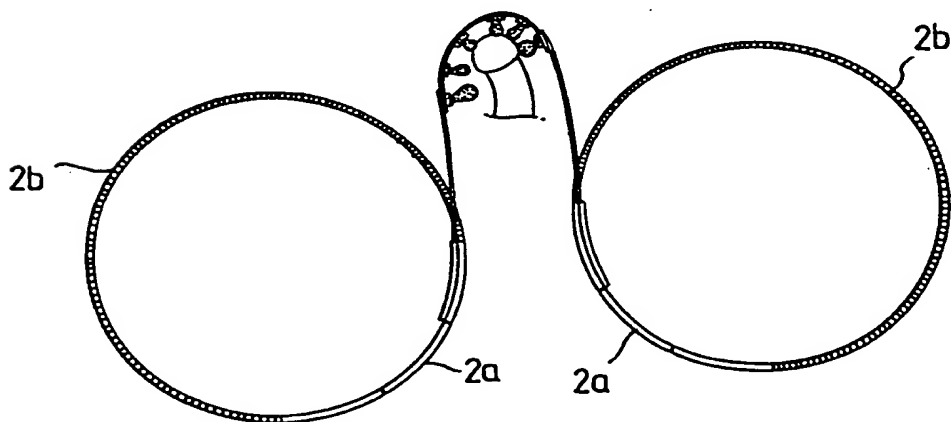
*FIG. 5*



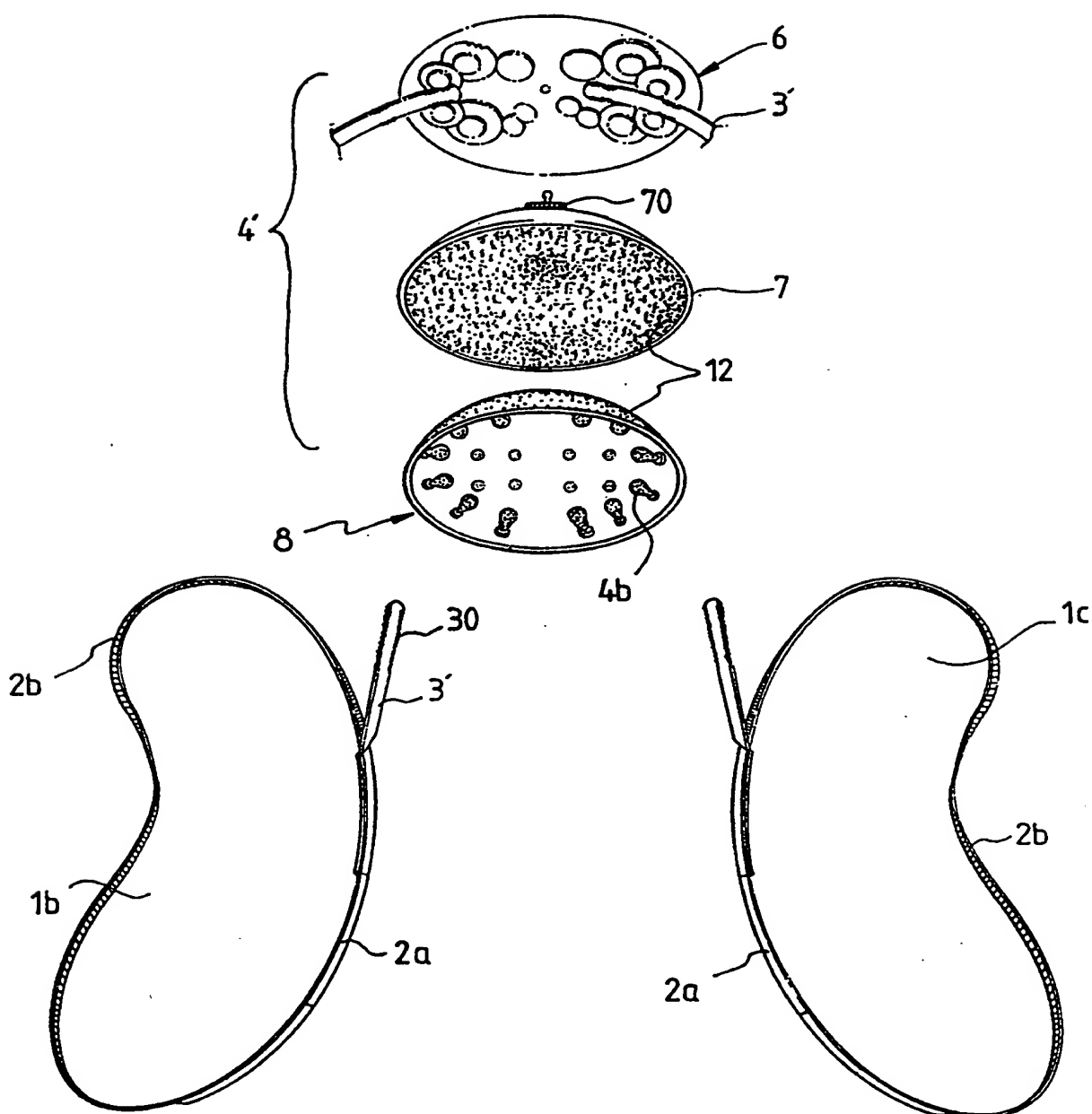
*FIG. 6*



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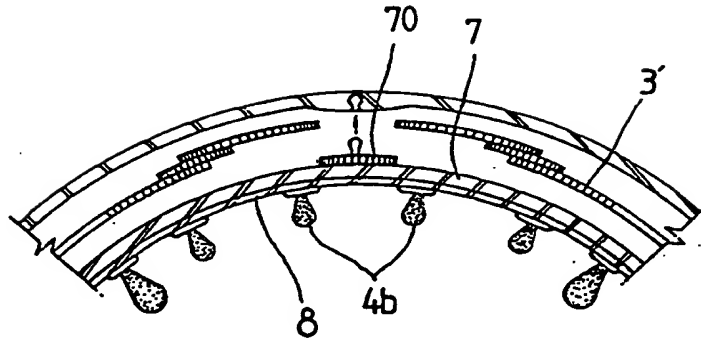
*FIG. 7**FIG. 8**FIG. 9*

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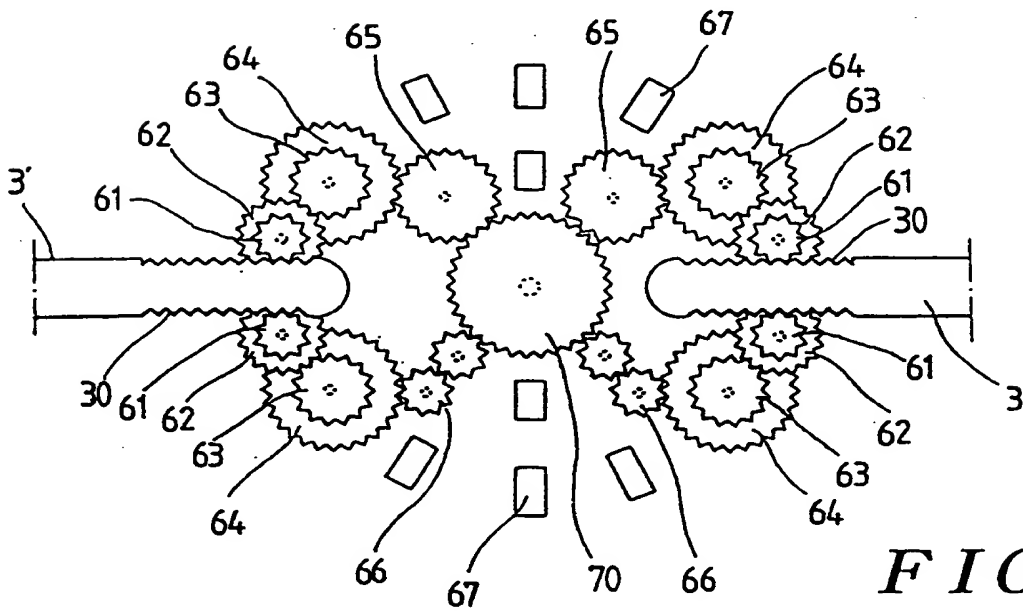
*FIG. 10*

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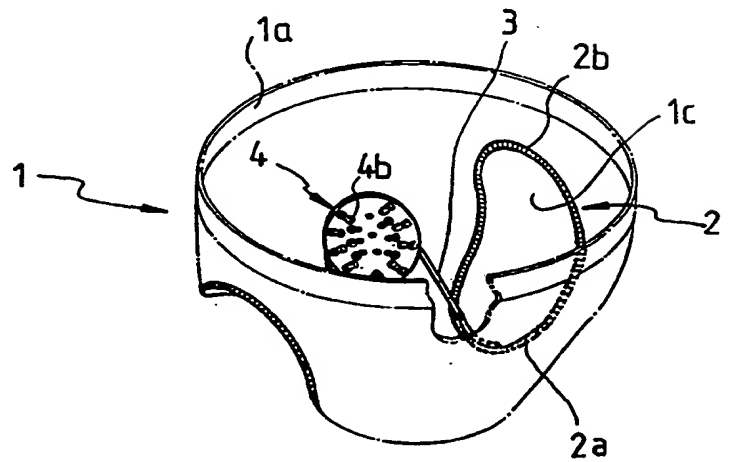
*FIG. 11*



*FIG. 12*



*FIG. 13*



## INTERNATIONAL SEARCH REPORT

International application No.

PCT/KR 95/00023

## A. CLASSIFICATION OF SUBJECT MATTER

IPC<sup>6</sup>: A 61 H 19/00 // A 41 B 9/02

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC<sup>6</sup>: A 61 H; A 41 B; A 63 B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 283 912 A (CHUNG) 08 February 1994 (08.02.94), abstract; fig. 1,2; column 1, line 65 - column 2, line 10.	1,7,8
A	GB 2 256 144 A (TAO PING CHANG) 02 December 1992 (02.12.92), abstract; fig.1; claim 1; page 2, lines 3-5.	1,7,8
A	CH 647 399 A (CHUNG) 31 January 1985 (31.01.95), abstract; claims 1,2; page 2, column 2, line 40; fig. 1-4.	1,7,8
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☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

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Date of the actual completion of the international search

21 June 1995 (21.06.95)

Date of mailing of the international search report

10 July 1995 (10.07.95)

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**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

International application No.

PCT/KR 95/00023

Im Recherchenbericht angeführtes Patentdokument Patent document cited in search report Document de brevet cité dans le rapport de recherche	Datum der Veröffentlichung Publication date Date de publication	Mitglied(er) der Patentfamilie Patent family member(s) Membre(s) de la famille de brevets	Datum der Veröffentlichung Publication date Date de publication
US A 5283912	08-02-94	AU A1 16437/92 BR U 72022220 CA AA 2085059 CN U 2121828 CZ AS 9201102 EP A1 538424 HU AO 9202167 NO A 924770 NO AO 924770 PT U 8472 WO A1 9218021	17-11-92 27-07-92 12-10-92 18-11-92 15-09-92 28-04-92 29-11-92 10-12-92 10-12-92 31-12-92 29-10-92
GB A 2256144		GB B2 2256144 US A 5103810 CA AA 2043560 NL A 9200514	14-06-95 14-04-92 01-12-92 18-10-92
CH A 647399		keine - none - rien	